PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file P/63736/GPTU63	FOR FURTHE	RACTION	See Form PCT/IPEA/416	
International application I		date (day/month/year)	Priority date (day/month/year)	
		· · · · · · · · · · · · · · · · · · ·	04.00.2000	
International Patent Classification (IPC) or national classification and IPC				
H05K13/04, H05K3/30				
	• .			
Applicant .				
MARCONI COMMUNICATIONS GMBH et al.				
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 				
2. This REPORT co	2. This REPORT consists of a total of 5 sheets, including this cover sheet.			
3. This report is als	3. This report is also accompanied by ANNEXES, comprising:			
a. \square sent to the applicant and to the International Bureau) a total of sheets, as follows:				
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental				
Box Relat	ing to Sequence Listing (see Secti	on 802 of the Administrative	e Instructions).	
	•			
4. This report contains indications relating to the following items:				
Box No. I	Basis of the opinion			
☐ Box No. II	Priority			
☐ Box No. III	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		e step and industrial applicability	
☐ Box No. IV	☐ Box No. IV Lack of unity of invention			
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
☐ Box No. VI	Certain documents cited			
☐ Box No. VII	Certain defects in the international	application		
☐ Box No. VIII	Certain observations on the intern	ational application		
	<u> </u>			
Date of submission of the	demand	Date of completion of t	this report	
16.03.2005		30.06.2005	30.06.2005	
Name and mailing address of the international preliminary examining authority:		Authorized Officer	allenes Petonies,	
European Patent Office		Telephone No. +49 89	2399-	
D-80298 M Tel. +49 89	unich 2399 - 0 Tx: 523656 epmu d			
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10/559634 IAP9 Rec'd PCT/PTO 01 DEC 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/051034

	Box No. I Basis of the repo	t .			
1.	With regard to the language, the filed, unless otherwise indicated	nis report is based on the international application in the language in which it was dunder this item.			
	☐ This report is based on translations from the original language into the following language , which is the language of a translation furnished for the purposes of:				
	publication of the intern	der Rules 12.3 and 23.1(b)) ational application (under Rule 12.4) y examination (under Rules 55.2 and/or 55.3)			
2.	With regard to the elements * of have been furnished to the received report as "originally filed" and a	If the international application, this report is based on (replacement sheets which eiving Office in response to an invitation under Article 14 are referred to in this re not annexed to this report):			
	Description, Pages				
	1-14	as originally filed			
	Claims, Numbers				
	1-11	as originally filed			
	Drawings, Sheets				
	1/3-3/3	as originally filed			
	☐ a sequence listing and/or a	ny related table(s) - see Supplemental Box Relating to Sequence Listing			
3. [☐ The amendments have res	sulted in the cancellation of:			
	☐ the description, pages				
	☐ the claims, Nos. ☐ the drawings, sheets/figs				
	the sequence listing (specify):any table(s) related to sequence listing (specify):				
	☐ This report has been estable had not been made, since they Supplemental Box (Rule 70.2(c	lished as if (some of) the amendments annexed to this report and listed below have been considered to go beyond the disclosure as filed, as indicated in the			
	☐ the description, pages	·			
	☐ the claims, Nos. ☐ the drawings, sheets/figs				
	☐ the sequence listing (specify):				
	any table(s) related to s				
	* If item 4 applies, s	ome or all of these sheets may be marked "superseded."			

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

2-7,9,10

No:

Claims

1,8,11

Inventive step (IS)

Yes:

Claims Claims

No:

1-11

1-11

Industrial applicability (IA)

Yes: Claims

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

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Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

D1: US-A-2002/0184755

D2: DE-A-196 10 294

D3: EP-A-1 161 129.

2. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1, 8, and 11 is not new in the sense of Article 33(2) PCT.

The document D1 discloses a method for automatically placing components of a circuit on a base plate based on predefined position data. The method known from D1 comprises the following steps (the references in parentheses applying to this document):

- a) detecting the position of at least one reference mark formed at the base plate (see reference signs 92, 364, and 370 in Figs. 1,2,9, and 10 and the accompanying text in paragraphs [0146] to [0153] and [0186] to [0195]);
- b) calculating a target position for placing a substrate on the base plate based on the detected position of the first reference mark and the predefined position data for said substrate and placing the substrate at the calculated position (see paragraphs [0199] to [0246] and Figs. 11 to 16);
- c) detecting the position of at least one second reference mark formed at the substrate (see reference signs 60, 104 and 106 in Figs. 1 and 2 and paragraphs [0158] to [0163]);
- d) calculating a target position for placing a further component on the substrate based on the detected position of the second reference mark and the predefined position data for said component, and placing the component at the calculated target position (see paragraphs [0199] to [0246] and Figs. 11 to 16).

Moreover, the components are circuit components and the steps a) to d) are carried out while the base plate is located at the same placing machine (see the abstract and Fig. 1).

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Therefore, D1 shows all of the features of present claims 1, 8, and 11.

- 3. Dependent claims 2 to 7 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step (Article 33(3) PCT), see documents D2 and D3 and the corresponding passages cited in the search report.
- 4. The further features of dependent claims 9 and 10 and are merely straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, in order to solve the problem posed. Therefore, the subject-matter of these claims cannot be considered as involving an inventive step (Article 33(3) PCT).